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| Attorne  | Applicant  |      |                      |                |               | Appl. No. |       |            |                        |     |                  |  |
| LANGHANS   |  |      | LUTZ LANGHANS et al. |                |               |           |       | 09/445,990 |                        |     |                  |  |
| Filing D   | Group  |      |                      |                |               | Examiner  |       |            |                        |     |                  |  |
| December 16, 1999  |  |      | 2828                 |                |               |           |       | J. Menefee |                        |     |                  |  |
| U.S. PATENT DOCUMENTS  |  |      |                      |                |               |           |       |            |                        |     |                  |  |
| Examiner<br>Initial  | Document Da<br>Number  |      | e                    |                | ame           | Class     |       | Sul        | Subclass Filing if app |     | Date,<br>opriate |  |
| Mac  | 5 022 043  |      | 4-1991               |                | acobs         | Ī         |       |            |                        |     |                  |  |
|  | 3 680 000  | 07-2 | 5-1972               | <del>  C</del> | hosler et al. |           |       | +          |                        |     |                  |  |
|  | A A  |      | Fited                | <u> </u>       |               | ļ         |       | <u> </u>   |                        |     |                  |  |
|  | 1, 10, 0, 0  | 11 6 | 7. 10g               | <u></u>        |               |           |       |            |                        |     |                  |  |
| FOREIGN PATENT DOCUMENTS   |  |      |                      |                |               |           |       |            |                        |     |                  |  |
|  | Document<br>Number   |      | Date                 |                | Country       |           | Class | iss        |                        | ass | Translation      |  |
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|  |  |      | $\overline{}$        |                |               |           |       |            |                        |     |                  |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)                                   |  |      |                      |                |               |           |       |            |                        |     |                  |  |
| Weber, H: Laserresonatoren und Strahlqualität – Resonators and Beam                                      |  |      |                      |                |               |           |       |            |                        |     |                  |  |
| Quality. In: Laser and Optoelektronik No. 2/1988, page 60-66   |  |      |                      |                |               |           |       |            |                        |     |                  |  |
| a~   | Magni, V., et al.: Recent developments in laser resonator design. In: Optical  |      |                      |                |               |           |       |            |                        |     |                  |  |
| and Quantum Electronics 23, 1991, page 1105-1134   |  |      |                      |                |               |           |       |            |                        |     |                  |  |
| 0  | Pavel, N., et al.: Positive-branch unstable resonators with thermal lens compensation. In: Optics & Laser Technology, Vol. 28, No. 6, 1996, page 451-455 |      |                      |                |               |           |       |            |                        |     |                  |  |
| <b>A</b>   | Metcalf, David, et. al.: Laser resonators containing self-focusing elements. In: Applied Optics, Vol. 26, No. 21, November 1987, page 4508-4518          |      |                      |                |               |           |       |            |                        |     |                  |  |
|  |  |      |                      |                |               |           |       |            |                        |     |                  |  |
| Examiner: Date considered:   |  |      |                      |                |               |           |       |            |                        |     |                  |  |
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